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6 August 1963

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As per your telephone request of 5 August 1963 we are pleased to quote for one [] Type 829C Comparator specially modified for the measurement of 6" diameter spools of 70mm film. Used in this application the travel of the comparator will be limited to 70mm in both x & y coordinates. With the special film stage removed the measuring travel will be 150mm by 100mm. The specifications are as follows:

1. The main screw (X axis) will be 1mm pitch, 5mm lead, having a 5 multiple thread. The digitizing head will be geared for 1000 counts per turn of the dial and the dial will have a least count of .005mm. The stage will advance 5mm travel per turn of the X screw.
2. The secondary screw (Y axis) will have 1/2mm pitch, 2-1/2mm lead, having a 5 multiple thread. Its digitizing head will be geared for 500 counts per turn and the dial will have a least count of .005mm. The stage will advance 2-1/2mm travel per turn of the Y screw.
3. Motorized measuring travel of X axis (to left and right of operator) would be at a rate of approximately 12mm per second. This travel would be across the width of the film.
4. Optical system and light source will be essentially the same as that made for the [] Type 422E Comparator. In this projection system the image magnifications at the screen would be 5X and 10X and the instrument should be operated in a room with subdued lighting.
5. Rheostat mounted to table top for control of light intensity.
6. There will be adaptation provided for [] Magnetic Reading Heads Type 15A to each screw. Each pulse of the head will represent .005mm motion of the stage.
7. Film stage having manual film advance for 6" spools of 70mm film will be provided. Maximum area exposed to view will be 70mm by 70mm.

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The pressure plate will be lifted by means of a solenoid operated from a foot switch. Plus or minus 4° of tangent motion will be provided for alignment of of the film stage.

8. This instrument, except for the illuminator, will be mounted on a cast sub-base and fastened to a steel 24" x 36" table with special table height of 26". The illumination unit will be fastened to the rear of this table. Illumination system to be 150 watt 21 volt system as used on 422.5 Comparator.

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9. Auxiliary screen assembly for projection system. Delivery of this instrument is 150 days after receipt of order at The price, and terms are net 30 days. The quotation is firm for 60 days.

10. Special overarm for above film transport and projection system.

11. Special pattern etched and filled in red on upper film pressure glass. Pattern to consist of a cross with 3 concentric circles. Circles concentric to cross to .002. Diameters of circles to be .875 dia., 1.312 dia., and 1.750 dia. Tolerance on circles to be $\pm .100$. All line width to be .001.

Very truly yours, STATINTL



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